Krypton ProLine AB70A PLUS

KRYPTON & Schemical &

Polyurea system for industrial application

DESCRIPTION

Krypton ProLine AB 70A Plus is a excellent elongation polyurea for applications on substrates exposed to very high/low temperatures or with expansion contraction movements. Low viscosity polyurea, with great mechanical strength, elasticity and aesthetic finish. Specially designed as a coating for foam furniture and objects cut in 3D, industrial design. Easy application with 1:1 hot mechanical projection equipment.

APPLICATION

- · coating for foam furniture and foam objects cut in 3D
- · Industrial design
- · Flexible polyurea flooring.
- · Protective elastic coating
- Krypton ProLine AB70A Plus can be coated with aliphatic polyurethane to provide UV protection and avoid color variations.

PROPERTIES

- · Very high elongation
- · Abrasion resistant
- · High mechanical strength
- · Membrane with high elasticity, totally continuous.
- Fast curing with hot spray application for two components.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION						
	Compon	ent A	Compon	Component B		
Chemical	Polyam	nine	Aromatic isocyanate			
description			prepolymer			
Physical	Liqui	d	Liqui	Liquid		
state						
Packaging	Metal container		Metal container			
Note: Pigment is	200 kg		220 kg			
delivered in a	Pigment					
third	4 kg					
container. See Pigment						
Spray data						
sheet for						
specific details.						
Non-volatile	approx 100%		100%			
content						
Flash point	>100°C		>100°C			
Colour	Dark yellow		Slightly yellow			
Density	Temperature	Density	Temperature	Density		
	(°C)	(g/cm ³)	(°C)	(g/cm ³)		
	25	1.01	25	1.13		
Viscosity	Temperature	Viscosity	Temperature	Viscosity		
	(°C)	(mPa.s)	(°C)	(mPa.s)		
	25	200-600	25	1500-		
				2200		
Mixing ratio A/B	A=1, B=1,1 by weight					
	A=1, B=1 by volume					
Density and viscosity of the mixture	Fast polymerization. See Pot life data					
Colour	Dark vallow but component A is pigmented by addition of					
Coloui	Dark yellow, but component A is pigmented by addition of pigment paste (Pigment Spray) delivered with each kit of					
	Krypton ProLine AB 85H Elastic					
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Pot life	Gel time mixture A+B (20 g) 12 s at 25°C		
	Tackfree in 20 seconds		
	Time for handling/piling up3 hours		
Storage	Keep between 10° y 30°C.		
Use before	12 months after manufacture date, provided it is kept in		
	its sealed container.		

INFORMATION ON THE FINAL PRODUCT					
Final state	Solid elastomeric membrane				
Colour	Available colours: light grey, dark grey,				
	Other colours RAL under request.				
Hardness (Shore)	67A (ISO 868)				
Mechanical	Elongation at break: 900%				
properties	Tensile strength: 9 MPa				
	(UNE EN ISO 527-1/3)				
UV resistance	Good resistance to UV-induced degradation. Aromatic				
	polyureas undergo change of colour under sunlight.				
	This change does not affect its mechanical properties.				
	Additional UV protection can be achieved by application				
	of an Krypton topcoat.				

SUSTRATES

Foam

The foam substrate must be dry and clean and free of contamination. Polyurea can be applied directly on foam although for lower consumption sealing the with primer is recommended.

Wood

All wood must be clean, dry,free of knots, chips, oil, grease or other contaminants and with a roughness profile The chipped or rough areas should be sanded.

Application of sealing primer (Consult Krypton Technician department)

RECOMMENDED ENVIRONMENTAL CONDITIONS

Air temperature should be between 10°c and 40°C . Relative air humidity should be less than 70%.

MIXING

Stir and homogenise separately both components using suitable mixing equipment before being loaded into the machine. Best Mixing equipment should have extensible blades with overall width equivalent to 1/3 of drum diameter. Add the required Pigment Spray to the A-component and stir before loading. Recirculate both components while heating up to the required application temperatures.

APPLICATION GUIDELINES

Krypton ProLine AB70A Plus must be applied using a 2-component hot spraying equipment. Recommended temperatures are:

- Component A: 70°C
- Component B: 75°C
- Hose temperature: 70°C

Pressure should be 150 bar.

During application, check layer thickness and curing speed.

Spray Krypton ProLine AB 70A Plus. at 1-2 kg/m².

Wind speeds in excess of 25 km/h may result in excessive loss of exotherm and interfere with the mixing efficiency of the spray gun affecting polyurea surface texture, cure, and physical properties and will cause overspray issues. Contact Krypton Chemical for more detailed technical information.



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Latest update: 14/11/2024

Page:

1/2

Krypton ProLine AB70A PLUS

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CURING TIME

Approximate hardness values are provided as reference only (2 mm, polypropylene support, 20°C 50% RH)

Time	Hardness shore A		
45 min	53		
3 hours	56A		
1 day	67A		

REAPPLICATION

Usually, necessary thickness can be obtained in one single coat. If necessary, a second coat can be applied immediately afterwards. In any case, do not wait more than 2 hours for a second coat. If spraying over a previously applied epoxy primer, ensure the primer is completely cured (ca 8 hours)

RETURN TO SERVICE

After 1 day, more than 90% of the final properties are reached.

TOOL CLEANING

Solvent use for machine component cleaning is discouraged. A cleaning plasticizer fluid like Rayston Fluid is suitable. Component B must be completely removed from all air-exposed parts and replaced with this cleaning fluid.

CLEANING AND MAINTENANCE

A maintenance work should be carried out regulary on the treated surfaces according to the intended use

FAQs

Problem	Question	Cause	Solution
product does	AB ratio is	Pressure	Check and correct
not cure	correct?	differences	machine operation Apply suitable
Pubbles or	ubbles or Porous No primer en pores support?		primer before
		No primer	•
open pores			Krypton ProLine
			AB 70A Plus
	Horizontal?		Apply 1 kg/m ²
No hiding power		Too little product	
			Ensure full
		Too little pigment	A+pigment
			homogeneization
Colour	Exposed to	UV-reaction	Use a last coat in
change	sunlight?		dark grey or red
			Not
			recommended.
			Krypton ProLine
	Can it be		AB 70A Plus is
	applied		always delivered
	without		with the pigment of
	pigmentation?		choice. Use of
			pigment helps to
			obtain an uniform
			appearance

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SAFETY

Component B contains isocyanates. Always follow the safety instructions in the Material Safety Data Sheet. As a general rule, a good ventilation and/or respiratory protection is needed (combined organic vapor filtres+particles) along with protective clothing. This product must be used only for the applications here described. This product is intended for industrial and professional use. It is not suitable for DIY-type applications.

ENVIRONMENTAL PRECAUTIONS

LEED-requirements compliant.

EQ Credit 4.2, Low emissin materials: Paints and Coatings.

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containes still have some material left, do not mix with other product with no knowledge of potential dangerous reactions. Component A and B may be mixed on a 1/1 ratio in order to get an inert material, but never do it in volumes larger than 5 litres in order to prevent a dangerous heat evolution.

OTHER INFORMATION

The information contained in this Technical Data Sheet, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" in order to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This Technical Data Sheet supersedes previous versions.



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Latest update:

Page:

14/11/2024

2/2